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1. DLA152-001: Advanced Manufacturing Technologies

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DLA seeks drastically lower unit costs of discrete-parts support through manufacturing revolutions that also have applicability to low and high volume production from commercial sales. This will result in an improvement in the affordability of these innovations to DLA and its customers and the development of cost effective methods to sustain existing defense systems while potentially impacting the ...

SBIR Defense Logistics AgencyDepartment of Defense

2. DLA152-002: Medical 3D Printing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DLA seeks to integrate 3D printing into the Medical supply chain. Medical 3D printing is a disruptive, game-changing technology that will significantly alter medical supply chains in the future. Integrating medical 3D printing will transform customer experience because the supplies will be customizable and available on-demand. With medical 3D printing, the DLA Medical Supply Chain can offer new pr ...

SBIR Defense Logistics AgencyDepartment of Defense

3. DLA152-003: Ceramic Additive Manufacturing for Metal Casting

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DLA seeks drastically lower unit costs and availability of cast parts support through manufacturing revolutions that also have applicability to low or high volume production from commercial sales. This will result in an improvement in the affordability of these innovations to DLA and its customers and the development of cost effective methods to sustain existing defense systems while a potential i ...

SBIR Defense Logistics AgencyDepartment of Defense

4. 9.01: Advanced Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Advanced Manufacturing is “a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

5. 9.01.01.73-R: Category-Theoretic Tools to Support Manufacturing Information

Integration

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

This subtopic is calling for a software tool to test the categorical formalism on integration problems in smart manufacturing and additive manufacturing. Category theory has been identified as a flexible and straightforward mathematical formalism for establishing compatibility of information structures and setting up the required information exchange. The software tool must enable the creati ...

SBIR Department of Commerce

6. 9.01.02.73-R: Computer Aided Standards Development (CASD) – A Software Tool to Automate the Standards Development Process

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The development of documentary and test standards is a long and tedious process. Challenges facing standards developers include complex, inadequately defined terminology, and rapidly changing associated information content. Even after a standard is “set,” its implementation and adoption can be hampered by the gap between the technical requirements of that standard and the technol ...

SBIR Department of Commerce

7. 9.01.03.68-R: High-Throughput Manufacturing Methods for Engineered MRI Contrast Agents

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Microfabricated magnetic imaging agents with greater sensitivity and new functionality for magnetic resonance imaging (MRI) have recently been demonstrated at NIST [1-4]. The technology relies on thin-film fabrication methods adapted from the semiconductor industry. This “top-down” approach is expensive and suffers from low yield compared to “bottom-up” methods based ...

SBIR Department of Commerce

8. 9.01.04.68-R: Laser Power Meter for Manufacturing Applications

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The decreasing cost and increasing efficiency of high-power lasers is revolutionizing manufacturing in the U.S. and around the world. Multi-kilowatt lasers are now routinely used for welding, cutting, and additive manufacturing. Precision control of these processes, and thus the uniform quality of the manufactured product, requires a meter that can measure the power of such lasers with an uncertai ...

SBIR Department of Commerce

9. 9.01.05.68-R: Optical Microscopy as Applied to Fabrication of Atomic-Scale Devices

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

NIST seeks development of an optical imaging system that has micrometer resolution, an image field of 50 to 200 micrometers, and a depth of focus that ensures image quality over the field of view of interest. Such a system must have a working distance of nominally 20 cm, image an object that is in vacuum, and potentially have flexibility to work around obstructed sight paths. To set the context, ...

SBIR Department of Commerce

10. 9.01.06.73-R: Predictive Modeling Tools for Metal-Based Additive Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

NIST seeks the development of tools that rely on a suite of physics-based and empirical models to support predictive analyses of metal-based additive manufacturing (AM) processes and products. Physics-based models will be developed in such a way to ensure reusability in a predictive environment, irrespective of product geometry. The tool will support reliable and repeatable microstruct ...

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